CLAIMS

We claim:

1. In a vehicle comprising a first device and a second device and an active network communicatively coupling the first device and the second device, wherein the active network is configured to provide a plurality of communication paths between the first device and the second device, and wherein a communication path of the plurality of communication paths includes a loop.

10

20

5

- 2. The vehicle of claim 1, wherein the active network comprises a plurality of active network elements coupled by connection media.
- 3. The vehicle of claim 2, wherein at least one of the active network elementscomprises switches.
 - 4. The vehicle of claim 2, wherein at least one of the active network elements comprises bridges.
 - 5. The vehicle of claim 2, wherein at least one of the active network elements comprises routers.
 - 6. The vehicle of claim 1, wherein the active network is a packet data network.

- 7. The vehicle of claim 1, wherein the loop couples a first active network element of the plurality of active network elements to a second active network element of the plurality of active network elements.
- 5 8. The vehicle of claim 7, wherein the loop has a loop data rate different than a path data rate of the communication paths.
 - 9. The vehicle of claim 7, wherein the loop comprises an active network element.

10

- 10. The vehicle of claim 7, wherein the loop comprises a plurality of active network elements.
- 11. The vehicle of claim 1, wherein the loop connects the first device and the second device.
 - 12. The vehicle of claim 1, wherein the active network comprises a multi-drop topology.
- 20 13. The vehicle of claim 1, wherein the active network comprises a ring topology.